Beam Power Tube

DUODECAR TYPE

GENERAL DATA Electrical: Heater Characteristics and Ratings: 6.3 ± 0.6 volts 1.200 Peak heater-cathode voltage: Heater negative with respect to cathode. 200 max. volts Heater positive with 200ª max. respect to cathode. volts Direct Interelectrode Capacitances (Approx.): Grid No. 1 to plate 0.34 pf Grid No.1 to cathode & grid No.3, pf grid No.2, and heater 16.0 Plate to cathode & grid No.3, grid No.2, and heater 7.0 pf Characteristics, Class $\mathbf{A}_{\mathbf{I}}$ Amplifier: Plate Voltage 150 60 250 5000 volts Grid-No.2 Voltage 150 150 150 150 volts Grid-No.1 Voltage 0 -22.5 -22.5volts Mu-Factor, Grid No.2 to Grid No.1 4.4 18000 Plate Resistance (Approx.). ohms Transconductance. 7300 μ**m**hos Plate Current 345° 65 ma 27**°** Grid-No.2 Current 1.8 ma Grid-No.1 Voltage (Approx.) for plate ma. = 1. -42 -100 volts Mechanical: Type of Cathode Coated Unipotential Base. Large-Button Duodecar 12-Pin (JEDEC No.E12-74) Pin 7-Plate Pin 8-Do Not Use^d Pin 1 - Heater Pin 2-Grid No.2 Pin 9 - Do Not Used Pin 3-Grid No.1 Pin 4 - Cathode, Pin 10 - Cathode, Grid No.3 Grid No.3 Pin 5 - Do Not Used Pin 11 - Grid No.1 Pin 6 - Do Not Used Pin 12 - Heater

HORIZONTAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame systeme		
DC PLATE-SUPPLY VOLTAGE	volts	
PEAK POSITIVE-PULSE PLATE VOLTAGE f 6500 max.	volts	
PEAK NEGATIVE-PULSE PLATE VOLTAGE 1500 max.		
DC GRID-No.2 (SCREEN-GRID) VOLTAGE 220 max.	volts	
DC GRID-No.1 (CONTROL-GRID) VOLTAGE55 max.		
PEAK NEGATIVE-PULSE GRID-No.1 VOLTAGE 330 max.	volts	
CATHODE CURRENT:		
Peak	ma	
Average 175 max.	ma	
PLATE DISSIPATION	watts	
BULB TEMPERATURE (At hottest	0 -	
point on bulb surface) 220 max.	OC.	

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For grid resistor-bias operation. 1 max. megohm

b without external shield.

92CS-12019

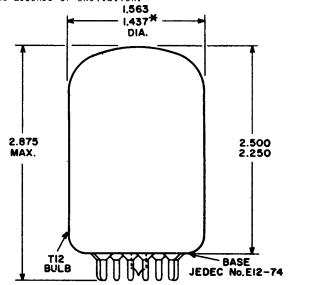
This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.

d Socket terminals 5.6.8, and 9 should not be used as tie points.

As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

9 An adequate bias resistor or other means is required to protect the tube in the absence of excitation.



* APPLIES TO MINIMUM DIAMETER EXCEPT IN THE AREA OF THE SEAL.

f a The dc component must not exceed 100 volts.